

BRUHAT BANGALORE MAHANAGARA PALIKE
Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet
First and Part

51

Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. . FOR TMT Bars Fe- 500 - First Floor

CHAINAGE

Land Mark

NO

L

(m)

B

(m)

B1

(m)

Avg B

(m)

D

(m)

QTY

REMARKS

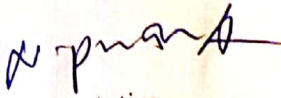
Qty Vide from Calculation Sheet

29.21

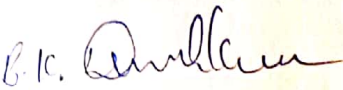
Total Qty Work Done

Qty Limited Payable in this bill

29.21


 Contractor Representative

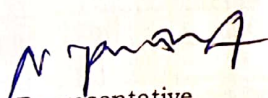

 Consultant Representative


 Assistant Engineer
 RR Nagara Division (Project)

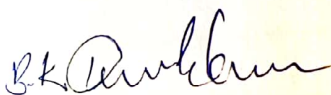

 ಸಹಾಯಕ ಇಂಜಿನಿಯರ್ (ಯೋಜನೆ)
 ಬೃಹತ್ ನಗರಾಭಿವೃದ್ಧಿ ಪ್ರಾಧಿಕಾರ (ಪ್ರಾಜೆಕ್ಟ್)
 ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

BRUHAT BANGALORE MAHANAGARA PALIKE
Measurement Sheet
First and Part

52	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. . FOR TMT Bars Fe- 500 - Second Floor							
CHAINAGE	NO	L	B	B1	Avg B	D	QTY	REMARKS
Land Mark		(m)	(m)	(m)	(m)	(m)		
Qty Vide from Calculation Sheet							25.75	✓
Total Qty Work Done							25.75	ಸಹಾಯಕ ಪ್ರಾಯೋಗಿಕ ಅಭಿವೃದ್ಧಿ ಇಲಾಖೆ
Qty Limited Payable in this bill							25.75	ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ


 Contractor Representative


 Consultant Representative


 Assistant Engineer
 RR Nagara Division (Project)


 Asst Executive Engineer (ಆರೋಪನ)
 RR Nagara Division (Project)
 ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

BRUHAT BANGALORE MAHANAGARA PALIKE
of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet
First and Part

55

Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m³ having a minimum average compressive strength of 5.00 N/mm² confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 - do - with solid concrete blocks of size 400x200x200mm Ground Floor

CHAINAGE	NO	L	B	B1	Avg B	D	QTY	REMARKS
Land Mark		(m)	(m)	(m)	(m)	(m)		
Ground Floor								
Grid No.A- 1 to 16	18.00	2.900				2.550	133.11	
Grid No.A & B- 1 to	12.00	2.300				2.550	70.38	
	7.00	2.600				2.550	46.41	
Grid No. C & F-1 to	11.00	5.300				2.550	148.67	
	7.00	5.600				2.550	99.96	
Lift Wall	2.00	1.300				2.550	6.63	
	1.00	2.150				2.550	5.48	
Staircase Wall	1.00	5.300				2.550	13.52	
Deductions(-)								
Ventilators	-13.00	0.600				1.500	-11.70	
Midlanding Beam	-1.00	5.300				0.450	-2.39	
Total Qty Work Done							510.07	Sqm
Reserve Qty							88.87	Sqm
Qty Limited Payable in this bill							421.20	Sqm

Contractor Representative



B.K. Dhanu
 Assistant Engineer
 RR Nagara Division (Project)

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಯೋಜನೆ)
 ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
 RR Nagara Division (Project)
 ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

BRUHAT BANGALORE MAHANAGARA PALIKE
of Work:-Construction of Market Building At Jp Park in Ward No 17.

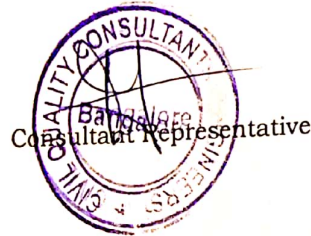
Measurement Sheet
First and Part

56

Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m³ having a minimum average compressive strength of 5.00 N/mm² confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 - do - with solid concrete blocks of size 400x200x200mm First Floor

CHAINAGE	NO	L	B	B1	Avg B	D	QTY	REMARKS
Land Mark		(m)	(m)	(m)	(m)	(m)		
First Floor								
Lift wall	2	1.300						
	1	2.150				3.150	8.19	
Staircase Wall	1	5.300				3.150	6.77	
	1	3.550				3.150	16.70	
	1	3.800				3.150	11.18	
Deductions(-)						3.150	11.97	
Window	-1	1.500				1.200	2.39	
Midlanding Beam	-1	5.300				0.450	2.39	
Total Qty Work Done							50.63	Sqm
Qty Limited Payable in this bill							50.63	Sqm

N. p. m. a
 Contractor Representative



B. K. D. m. k. m.
 Assistant Engineer
 RR Nagara Division (Project)

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಪ್ರೋಜೆಕ್ಟ್)
 ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
 RR Nagara Division (Project)
 ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

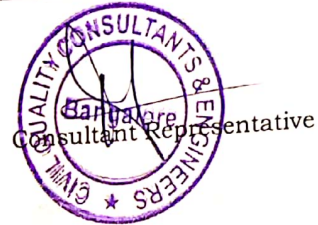
BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet
First and Part

Item No:	57	First and Part						
Item Name:	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m ³ having a minimum average compressive strength of 5.00 N/mm ² confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 - do - with solid concrete blocks of size 400x200x200mm Second Floor							
CHAINAGE	NO	L	B	B1	Avg B	D	QTY	REMARKS
Land Mark		(m)	(m)	(m)	(m)	(m)		
Secound Floor								
Lift wall	2	1.300				3.150	8.19	
	1	2.150				3.150	6.77	
Staircase Wall	1	5.300				3.150	16.70	
	1	3.550				3.150	11.18	
	1	3.800				3.150	11.97	
Deductions(-)								
Window	-1	1.500				1.200	1.80	
Midlanding Beam	-1	5.300				0.450		
Total Qty Work Done							50.63	Sqm
Qty Limited Payable in this bill							50.63	Sqm

Contractor Representative



B. K. ...
Assistant Engineer
RR Nagara Division (Project)

ಸಹಾಯಕ ನಿರ್ದೇಶಕರು (ನೋಡನ)
Assst. Executive Engineer
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
RR Nagara Division (Project)
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

BRUHAT BANGALORE MAHANAGARA PALIKE
 Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet
 First and Part

62

Providing 18mm thick cement plaster in single coat with cement mortar 1:3 to Brick masonry including rounding off corners wherver required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications External - Ground Floor

CHAINAGE

Land Mark

NO

L

B

B1

Avg B

D

QTY

REMARKS

Ground Floor

1

57.800

3.450

199.41

Deduction

V

-16.00

1.500

0.600

-14.40

Total Qty Work Done

185.01

Sqm

Qty Limited Payable in this bill

185.01

Sqm

Contractor Representative

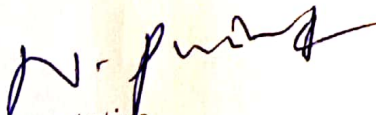
Consultant Representative

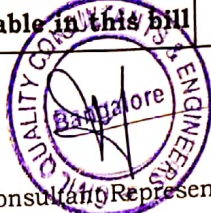
Assistant Engineer
 RR Nagara Division (Project)

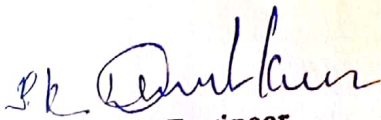
Asst. Executive Engineer
 RR Nagara Division (Project)
 ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

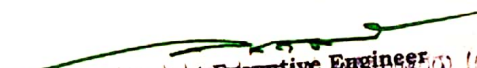
BRUHAT BANGALORE MAHANAGARA PALIKE
Measurement Sheet
First and Part

67		Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering.: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Internal) - Ground Floor						
CHAINAGE	NO	L	B	B1	Avg B	D	QTY	REMARKS
Land Mark		(m)	(m)	(m)	(m)	(m)		
Grid A-B 1 to 21	18	9.700				2.750	480.15	
Grid C-F 1 to 21	16	15.800				2.750	695.20	
Staircase Lobby	1	18.100				2.750	49.78	
Lift Outside	1	6.950				2.750	19.11	
Deduction								
V	-14.50	1.500				0.600	-13.05	
Total Qty Work Done							1231.19	Sqm
Qty Limited Payable in this bill							1231.19	Sqm


Contractor Representative


Consultant Representative


Assistant Engineer
RR Nagara Division (Project)


Assistant Executive Engineer
RR Nagara Division (Project)
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

BRUHAT BANGALORE MAHANAGARA PALIKE

Work:- Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet
First and Part

72

Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherver required smooth rendering.: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications -to Ceiling - Ground Floor

CHAINAGE

Land Mark

NO

L

B

B1

Avg B

D

QTY

REMARKS

Grid A-B 1 to 21

18

3.10

(m)

(m)

(m)

(m)

(m)

Grid B-C 1 to 21

18

3.20

(m)

(m)

(m)

(m)

184.14

Beams

36

3.20

(m)

(m)

(m)

(m)

4.70

270.72

Beams

36

4.70

(m)

(m)

(m)

(m)

0.30

34.56

Column Side

37

0.30

(m)

(m)

(m)

(m)

0.30

50.76

Grid C F 1 to 21

16

6.50

(m)

(m)

(m)

(m)

2.45

27.20

Beams

32

3.10

(m)

(m)

(m)

(m)

3.10

322.40

Beams

1

2.50

(m)

(m)

(m)

(m)

0.30

29.76

Staircase Ceiling

6.50

16*2=32

First Flait

1

1.90

(m)

(m)

(m)

(m)

1.50

2.85

Secound Flait

1

2.70

(m)

(m)

(m)

(m)

1.50

4.05

Third Flait

1

1.90

(m)

(m)

(m)

(m)

1.50

2.85

Ducked Beam

2

3.70

(m)

(m)

(m)

(m)

0.30

2.22

Staircase Lobby

1

18.10

(m)

(m)

(m)

(m)

2.75

49.78

Total Qty Work Done

997.53

Sqm

Reserve Qty

1.23

Sqm

Qty Limited Payable in this bill

996.30

Sqm

Contractor Representative

Consultant Representative

Assistant Engineer

RR Nagara Division (Project)

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ (ಸಾಮಾನ್ಯ)
ಬೃ.ಹರಿಹರನಗರ ವಿಭಾಗ (Project)
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

BRUHAT BANGALORE MAHANAGARA PALIKE

Measurement Sheet

First and Part

125

KSRB 7.7 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm. weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c/c including providing and fixing I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be thoroughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of eady mix paint of approved colour and make including cost of materials, fixtures, labour and HOM complete as per pecifications. Specification No. KBS 7.12.1 / 7.12.2 / 7.12.3 / 7.12

CHAINAGE

Land Mark

NO

L

B

B1

Avg B

D

QTY

REMARKS

29

1.50

0.600

26.10

Total Qty Work Done

26.10

Qty Limited Payable in this bill

26.10

N. Prasad
Contractor Representative

[Signature]
Consultant Representative

B.K. Gundanna
Assistant Engineer
RR Nagara Division (Project)

[Signature]
Asst. Executive Engineer
ಸಹಾಯಕ ನಿರ್ದೇಶಕರು (ಸಿ.ಇ.ಇ.)
ಬೃಹತ್ ನಗರಾಧಿಕಾರಿ ಮಹಾನಗರ ಪಾಲಿಕೆ
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

SHRI MAT HANUJANGA MAMABALLA PALICE
Work: Construction of Market Building at Jy Park in Ward No 17.

1.30

Management Sheet
First and Last

Providing and fixing pull and push type rolling devices of approved make and of 12 gauge. These will hold steel roller at bottom of vertical arrangement, with side guides and bottom rail, with interlocking arrangement for steel roller to move of smooth trip. Components shall with high tension and type steel bearing arrangement, for smooth & specially designed pipe shaft, with bearing plates, guide channels, and roller pulling handle. Also handle with push & pull operation complete specifications. Shutter also steel & iron. WORK of machinery complete as per

CHARGE		NO	I	B	SI	Avg S	D	QTY	REMARKS
Land Mark									
Ground Floor		1	3.00			2.30		7.80	
Total Qty Work Done									7.80
Qty Limited Payable in this bill									7.80

[Signature]
 Assistant Engineer



[Signature]
 Assistant Engineer
 at Engineer Division (Project)

[Signature]
 Assistant Engineer
 at Engineer Division (Project)

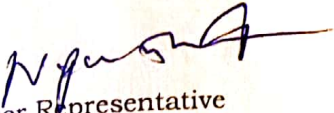
BRUHAT BANGALORE MAHANAGARA PALIKE
Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet
First and Part

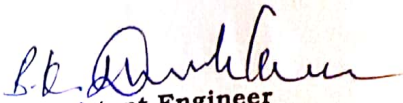
164

Supplying following size heavy guage PVC conduit pipe and following thick confirming to IS 2509 with suitable size bends, Metal/PVC junction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary a) 19mm dia 2mm thick

CHAINAGE	NO	L	B	B1	Avg B	D	QTY	REMARKS
Land Mark		(m)	(m)	(m)	(m)	(m)		
19mm Dia	1	2010.00					2010.00	cat
Total Qty Work Done							2010.00	Rmt
Qty Limited Payable in this bill							2000.00	Rmt


 Contractor Representative


 Consultant Representative


 Assistant Engineer
 RR Nagara Division (Project)

ಸಹಾಯಕ ಆಯುಕ್ತರ ಕಛೇರಿ (ಯೋಜನೆ)
 ಬೃಹತ್ ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ
 RR Nagara Division (Project)
 ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

BRUHAT BANGALORE MAHANAGARA PALIKE
Measurement Sheet
First and Part

165

Supplying following size heavy guage PVC conduit pipe and following thick confirming to IS 2509 with suitable size bends, Metal/PVC junction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessaryb) 25mm dia 2mm thick

CHAINAGE

Land Mark

NO

L

(m)

B

(m)

B1

(m)

Avg B

(m)

D

(m)

QTY

REMARKS

25mm Dia

1

705.00

705.00

Total Qty Work Done

705.00

Qty Limited Payable in this bill

705.00

[Signature]
 Contractor Representative

[Signature]
 Consultant Representative

[Signature]
 Assistant Engineer
 RR Nagara Division (Project)

[Signature]
 Asst. Executive Engineer
 RR Nagara Division (Project)
 ಬೃಹತ್ ನಗರಾಭಿವೃದ್ಧಿ ಪ್ರಾಧಿಕಾರ
 ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

BRUHAT BANGALORE MAHANAGARA PALIKE

of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet First and Part

166

Supplying following size heavy guage PVC conduit pipe and following thick confirming to IS 2509 with suitable size bends, Metal/PVC junction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary) 32mm dia 2.5mm thick

CHAINAGE	NO	L	B	B1	Avg B	D	QTY	REMARKS
Land Mark		(m)	(m)	(m)	(m)	(m)		
32mm Dia	1	40.00					40.00	
Total Qty Work Done							40.00	
Qty Limited Payable in this bill							40.00	

[Signature]
Contractor Representative

[Signature]
Consultant Representative

[Signature]
Assistant Engineer
RR Nagara Division (Project)

[Signature]
ಸಹಾಯಕ ನಿರ್ದೇಶಕರು (ಯೋಜನೆ)
ಬೃಹತ್ ನಗರಾಭಿವೃದ್ಧಿ ಪ್ರಾಧಿಕಾರ (ಪ್ರಾಜೆಕ್ಟ್)
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

BRUHAT BANGALORE MAHANAGARA PALIKE

Work: Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet First and Part

167

supplying heavy gauge pvc conduit pipe ...dia...mm thick with suitable size bends, metal Junction boxes adhesive paste etc...,by groove cutting in the wall and fixing by bracing U & J hooks and Cement plastering upto the wall surface and run with 18 SWG GI fish wire run throughout the conduit where ever necessary. 19/ 20 mm dia 2mm thick

CHAINAGE	NO	L	B	B1	Avg B	D	QTY	REMARKS
Land Mark		(m)	(m)	(m)	(m)	(m)		
19mm Dia	1	225.00					225.00	
Total Qty Work Done							225.00	
Qty Limited Payable in this bill							225.00	

[Signature]
Contractor Representative



[Signature]
Assistant Engineer
RR Nagara Division (Project)

ಇತರರ ಸಹಾಯದಿಂದ (ನಿರ್ಮಿಸಿದ)
ಬೃಹತ್ ನಗರಾಂಗಣ (Project) ರ
ರೂಪರೇಷೆಯಲ್ಲಿ ಕೆಲಸ ಮಾಡುವುದು